



Sequence Listing

<110> Ashkenazi, Avi J.  
Baker, Kevin P.  
Chuntharapai, Anan  
Gurney, Austin  
Kim, Kyung Jin  
Wood, William I.

<120> Apo-2DcR

<130> P1110P1

<140> US 09/096,500

<141> 1998-06-12

<150> US 60/049,911

<151> 1997-06-18

<160> 17

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<212> PRT

<213> Homo sapiens

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Ala	Val	Leu	Leu	Pro	Val	Leu	Ala	Tyr	Ser	Ala	Thr	Thr	Ala	Arg
				20					25					30

Gln	Glu	Glu	Val	Pro	Gln	Gln	Thr	Val	Ala	Pro	Gln	Gln	Gln	Arg
				35					40					45

His	Ser	Phe	Lys	Gly	Glu	Glu	Cys	Pro	Ala	Gly	Ser	His	Arg	Ser
				50					55					60

Glu	His	Thr	Gly	Ala	Cys	Asn	Pro	Cys	Thr	Glu	Gly	Val	Asp	Tyr
				65					70					75

Thr	Asn	Ala	Ser	Asn	Asn	Glu	Pro	Ser	Cys	Phe	Pro	Cys	Thr	Val
				80					85					90

Cys	Lys	Ser	Asp	Gln	Lys	His	Lys	Ser	Ser	Cys	Thr	Met	Thr	Arg
				95					100					105

Asp	Thr	Val	Cys	Gln	Cys	Lys	Glu	Gly	Thr	Phe	Arg	Asn	Glu	Asn
				110					115					120

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Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Ser	Arg	Cys	Pro	Ser	Gly	Glu
				125					130					135
Val	Gln	Val	Ser	Asn	Cys	Thr	Ser	Trp	Asp	Asp	Ile	Gln	Cys	Val
				140					145					150
Glu	Glu	Phe	Gly	Ala	Asn	Ala	Thr	Val	Glu	Thr	Pro	Ala	Ala	Glu
				155					160					165
Glu	Thr	Met	Asn	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu
				170					175					180
Glu	Thr	Met	Asn	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu
				185					190					195
Glu	Thr	Met	Thr	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu
				200					205					210
Glu	Thr	Met	Thr	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu
				215					220					225
Glu	Thr	Met	Thr	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Ser	Ser	His	Tyr
				230					235					240
Leu	Ser	Cys	Thr	Ile	Val	Gly	Ile	Ile	Val	Leu	Ile	Val	Leu	Leu
				245					250					255

Ile Val Phe Val

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 cgtttagggaa ctctggggac agagcgcccc ggccgcctga tggccgaggc 150  
 aggggtgcgac ccaggaccca ggacggcgctc gggaaccata cc atg 195  
 Met  
 1

gcc cgg atc ccc aag acc cta aag ttc gtc gtc gtc atc 234  
 Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile  
                   5                                  10

gtc gcg gtc ctg ctg cca gtc cta gct tac tct gcc acc 273  
 Val Ala Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr  
           15                                  20                                  25

act gcc cgg cag gag gaa gtt ccc cag cag aca gtg gcc 312  
 Thr Ala Arg Gln Glu Glu Val Pro Gln Gln Thr Val Ala  
                   30                                  35                                  40

cca cag caa cag agg cac agc ttc aag ggg gag gag tgt 351  
 Pro Gln Gln Gln Arg His Ser Phe Lys Gly Glu Glu Cys  
                                   45                                  50

cca gca gga tct cat aga tca gaa cat act gga gcc tgt 390  
 Pro Ala Gly Ser His Arg Ser Glu His Thr Gly Ala Cys  
           55                                  60                                  65

aac ccg tgc aca gag ggt gtg gat tac acc aac gct tcc 429  
 Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser  
                   70                                  75

aac aat gaa cct tct tgc ttc cca tgt aca gtt tgt aaa 468  
 Asn Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys  
           80                                  85                                  90

tca gat caa aaa cat aaa agt tcc tgc acc atg acc aga 507  
 Ser Asp Gln Lys His Lys Ser Ser Cys Thr Met Thr Arg  
                   95                                  100                                  105

gac aca gtg tgt cag tgt aaa gaa ggc acc ttc cgg aat 546  
 Asp Thr Val Cys Gln Cys Lys Glu Gly Thr Phe Arg Asn  
                                   110                                  115

gaa aac tcc cca gag atg tgc cgg aag tgt agc agg tgc 585  
 Glu Asn Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys  
           120                                  125                                  130

cct agt ggg gaa gtc caa gtc agt aat tgt acg tcc tgg 624  
 Pro Ser Gly Glu Val Gln Val Ser Asn Cys Thr Ser Trp  
                   135                                  140

gat gat atc cag tgt gtt gaa gaa ttt ggt gcc aat gcc 663  
 Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala Asn Ala  
           145                                  150                                  155

act gtg gaa acc cca gct gct gaa gag aca atg aac acc 702  
 Thr Val Glu Thr Pro Ala Ala Glu Glu Thr Met Asn Thr  
                   160                                  165                                  170

agc ccg ggg act cct gcc cca gct gct gaa gag aca atg 741  
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met  
                     175                    180

aac acc agc cca ggg act cct gcc cca gct gct gaa gag 780  
 Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu  
           185                    190                    195

aca atg acc acc agc ccg ggg act cct gcc cca gct gct 819  
 Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala  
                     200                    205

gaa gag aca atg acc acc agc ccg ggg act cct gcc cca 858  
 Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro  
           210                    215                    220

gct gct gaa gag aca atg acc acc agc ccg ggg act cct 897  
 Ala Ala Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro  
                     225                    230                    235

gcc tct tct cat tac ctc tca tgc acc atc gta ggg atc 936  
 Ala Ser Ser His Tyr Leu Ser Cys Thr Ile Val Gly Ile  
                     240                    245

ata gtt cta att gtg ctt ctg att gtg ttt gtt t 970  
 Ile Val Leu Ile Val Leu Leu Ile Val Phe Val  
           250                    255                    259

gaaagacttc actgtggaag aaattccttc cttacctgaa aggttcaggt 1020

aggcgctggc tgagggcggg gggcgctgga cactctctgc cctgcctccc 1070

tctgctgtgt tcccacagac agaaacgcct gccctgccc caaaaaaaaaa 1120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1170

aaaaaaaaaa 1180

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 <213> Homo sapiens

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                     20                    25                    30

Arg	Thr	Gln	Asp	Gly	Val	Gly	Asn	His	Thr	Met	Ala	Arg	Ile	Pro	35	40	45
Lys	Thr	Leu	Lys	Phe	Val	Val	Val	Ile	Val	Ala	Val	Leu	Leu	Pro	50	55	60
Val	Leu	Ala	Tyr	Ser	Ala	Thr	Thr	Ala	Arg	Gln	Glu	Glu	Val	Pro	65	70	75
Gln	Gln	Thr	Val	Ala	Pro	Gln	Gln	Gln	Arg	His	Ser	Phe	Lys	Gly	80	85	90
Glu	Glu	Cys	Pro	Ala	Gly	Ser	His	Arg	Ser	Glu	His	Thr	Gly	Ala	95	100	105
Cys	Asn	Pro	Cys	Thr	Glu	Gly	Val	Asp	Tyr	Thr	Asn	Ala	Ser	Asn	110	115	120
Asn	Glu	Pro	Ser	Cys	Phe	Pro	Cys	Thr	Val	Cys	Lys	Ser	Asp	Gln	125	130	135
Lys	His	Lys	Ser	Ser	Cys	Thr	Met	Thr	Arg	Asp	Thr	Val	Cys	Gln	140	145	150
Cys	Lys	Glu	Gly	Thr	Phe	Arg	Asn	Glu	Asn	Ser	Pro	Glu	Met	Cys	155	160	165
Arg	Lys	Cys	Ser	Arg	Cys	Pro	Ser	Gly	Glu	Val	Gln	Val	Ser	Asn	170	175	180
Cys	Thr	Ser	Trp	Asp	Asp	Ile	Gln	Cys	Val	Glu	Glu	Phe	Gly	Ala	185	190	195
Asn	Ala	Thr	Val	Glu	Thr	Pro	Ala	Ala	Glu	Glu	Thr	Met	Asn	Thr	200	205	210
Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Asn	Thr	215	220	225
Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	230	235	240
Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	245	250	255
Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	260	265	270
Ser	Pro	Gly	Thr	Pro	Ala	Ser	Ser	His	Tyr	Leu	Ser	Cys	Thr	Ile	275	280	285

Val Gly Ile Ile Val Leu Ile Val Leu Leu Ile Val Phe Val  
290 295

<210> 4  
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Met Gln Gly Val Lys Glu  
-40 -35

cgc ttc cta ccg tta ggg aac tct ggg gac aga gcg ccc 129  
Arg Phe Leu Pro Leu Gly Asn Ser Gly Asp Arg Ala Pro  
-30 -25

cgg ccg cct gat ggc cga ggc agg gtg cga ccc agg acc 168  
Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro Arg Thr  
-20 -15 -10

cag gac ggc gtc ggg aac cat acc atg gcc cgg atc ccc 207  
Gln Asp Gly Val Gly Asn His Thr Met Ala Arg Ile Pro  
-5 1 5

aag acc cta aag ttc gtc gtc gtc atc gtc gcg gtc ctg 246  
Lys Thr Leu Lys Phe Val Val Val Ile Val Ala Val Leu  
10 15

ctg cca gtc cta gct tac tct gcc acc act gcc cgg cag 285  
Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln  
20 25 30

gag gaa gtt ccc cag cag aca gtg gcc cca cag caa cag 324  
Glu Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln  
35 40

agg cac agc ttc aag ggg gag gag tgt cca gca gga tct 363  
Arg His Ser Phe Lys Gly Glu Glu Cys Pro Ala Gly Ser

45		50		55	
cat aga tca gaa cat act gga gcc tgt aac ccg tgc aca 402					
His Arg Ser Glu His Thr Gly Ala Cys Asn Pro Cys Thr					
60		65		70	
gag ggt gtg gat tac acc aac gct tcc aac aat gaa cct 441					
Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn Asn Glu Pro					
75		80			
tct tgc ttc cca tgt aca gtt tgt aaa tca gat caa aaa 480					
Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln Lys					
85		90		95	
cat aaa agt tcc tgc acc atg acc aga gac aca gtg tgt 519					
His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys					
100		105			
cag tgt aaa gaa ggc acc ttc cgg aat gaa aac tcc cca 558					
Gln Cys Lys Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro					
110		115		120	
gag atg tgc cgg aag tgt agc agg tgc cct agt ggg gaa 597					
Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu					
125		130		135	
gtc caa gtc agt aat tgt acg tcc tgg gat gat atc cag 636					
Val Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln					
140		145			
tgt gtt gaa gaa ttt ggt gcc aat gcc act gtg gaa acc 675					
Cys Val Glu Glu Phe Gly Ala Asn Ala Thr Val Glu Thr					
150		155		160	
cca gct gct gaa gag aca atg aac acc agc ccg ggg act 714					
Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr					
165		170			
cct gcc cca gct gct gaa gag aca atg aac acc agc cca 753					
Pro Ala Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro					
175		180		185	
ggg act cct gcc cca gct gct gaa gag aca atg acc acc 792					
Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr					
190		195		200	
agc ccg ggg act cct gcc cca gct gct gaa gag aca atg 831					
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met					
205		210			
acc acc agc ccg ggg act cct gcc cca gct gct gaa gag 870					

Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu  
 215 220 225

aca atg acc acc agc ccg ggg act cct gcc tct tct cat 909  
 Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His  
 230 235

tac ctc tca tgc acc atc gta ggg atc ata gtt cta att 948  
 Tyr Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile  
 240 245 250

gtg ctt ctg att gtg ttt gtt t gaaagacttc actgtggaag 990  
 Val Leu Leu Ile Val Phe Val  
 255 259

aaattccttc cttacctgaa aggttcaggt aggcgctggc tgagggcggg 1040

gggcgctgga cactctctgc cctgcctccc tctgctgtgt tcccacagac 1090

agaaacgcct gccctgccc caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1180

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 <212> DNA  
 <213> Yeast

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 tgtaaaacga cggccagtta aatagacctg caattattaa tct 43

<210> 6  
 <211> 41  
 <212> DNA  
 <213> Yeast

<400> 6  
 caggaaacag ctatgaccac ctgcacacct gcaaattccat t 41

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 <211> 49  
 <212> PRT  
 <213> Homo sapiens

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 Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His  
 1 5 10 15

Leu Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly  
 20 25 30



Gln Val Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys  
 35 40 45

Gly Cys Arg Lys

<210> 8  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 8  
 Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn  
 1 5 10 15

Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln  
 20 25 30

Lys His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys Gln  
 35 40 45

Cys Lys Glu

<210> 9  
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gctaaagctg aggcagcggg 70

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 <213> Homo sapiens

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 <222> (140) . . . (1372)  
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<220>  
 <221> Unsure  
 <222> 1367  
 <223> W may be adenine or thymine or uracil

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 ccacgggcct gagagactat aagagcggtc cctaccgcca tggaacaacg 150  
 gggacagaac g'ccccggccg cttcgggggc ccggaaaagg cacggcccag 200  
 gacccagggg ggcgcggggg gccaggcctg ggctccgggt cccaagacc 250  
 cttgtgctcg ttgtgcgcgc ggtcctgctg ttggtctcag ctgagtctgc 300  
 tctgatcacc caacaagacc tagctcccca gcagagagcg gcccacaaac 350  
 aaaagaggtc cagccctca gagggattgt gtccacctgg acaccatata 400  
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 cactcactgg aatgacctcc ttttctgctt gcgctgcacc aggtgtgatt 500  
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 gaagtgccgc acaggggtgc ccagagggat ggtcaaggtc ggtgattgta 650  
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 ggagtcacag ttgcagccgt agtcttgatt gtggctgtgt ttgtttgcaa 750  
 gtctttactg tggaagaaag tccttcctta cctgaaaggc atctgctcag 800  
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 gctgaggaca atgtcctcaa tgagatcgtg agtatcttgc agcccacca 900  
 ggtccctgag caggaaatgg aagtccagga gccagcagag ccaacagggtg 950  
 tcaacatggt gtcccccggt gagtcagagc atctgctgga accggcagaa 1000  
 gctgaaagggt ctcagaggag gaggtgctg gttccagcaa atgaagggtg 1050  
 tcccactgag actctgagac agtgcttcga tgactttgca gacttgggtgc 1100  
 cctttgactc ctgggagccg ctcagagga agttgggcct catggacaat 1150  
 gagataaagg tggctaaagc tgaggcagcg ggccacaggg acaccttgta 1200  
 cacgatgctg ataaagtggg tcaacaaaac cgggcgagat gcctctgtcc 1250  
 acacctgct ggatgccttg gagacgctgg gagagagact tgccaagcag 1300

aagattgagg accacttggt gagctctgga aagttcatgt atctagaagg 1350  
taatgcagac tctgccwtgt cctaagtgtg attctcttca ggaagtgaga 1400  
ccttccttgg ttacctttt ttctggaaaa agcccaactg gactccagtc 1450  
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ccatccaaca tcacccagtg gatggaacat cctgtaactt ttcactgcac 1550  
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gtctggatca ttccgtttgt gcgtactttg agatttggtt tgggatgtca 1650  
ttgttttcac agcacttttt tctcctaagt taaatgcttt atttatttat 1700  
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ggcggccgcg actctagagt cgacctgcag aagcttggcc gccatggcc 1799

<210> 11  
<211> 411  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Unsure  
<222> 410  
<223> Xaa may be leucine or methionine

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Lys Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro  
20 25 30  
Gly Leu Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val  
35 40 45  
Leu Leu Leu Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp  
50 55 60  
Leu Ala Pro Gln Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser  
65 70 75  
Pro Ser Glu Gly Leu Cys Pro Pro Gly His His Ile Ser Glu Asp  
80 85 90  
Gly Arg Asp Cys Ile Ser Cys Lys Tyr Gly Gln Asp Tyr Ser Thr  
95 100 105

His Trp Asn Asp	Leu Leu Phe Cys Leu Arg Cys Thr Arg Cys Asp	110	115	120
Ser Gly Glu Val	Glu Leu Ser Pro Cys Thr Thr Thr Arg Asn Thr	125	130	135
Val Cys Gln Cys	Glu Glu Gly Thr Phe Arg Glu Glu Asp Ser Pro	140	145	150
Glu Met Cys Arg	Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val	155	160	165
Lys Val Gly Asp	Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His	170	175	180
Lys Glu Ser Gly	Ile Ile Ile Gly Val Thr Val Ala Ala Val Val	185	190	195
Leu Ile Val Ala	Val Phe Val Cys Lys Ser Leu Leu Trp Lys Lys	200	205	210
Val Leu Pro Tyr	Leu Lys Gly Ile Cys Ser Gly Gly Gly Gly Asp	215	220	225
Pro Glu Arg Val	Asp Arg Ser Ser Gln Arg Pro Gly Ala Glu Asp	230	235	240
Asn Val Leu Asn	Glu Ile Val Ser Ile Leu Gln Pro Thr Gln Val	245	250	255
Pro Glu Gln Glu	Met Glu Val Gln Glu Pro Ala Glu Pro Thr Gly	260	265	270
Val Asn Met Leu	Ser Pro Gly Glu Ser Glu His Leu Leu Glu Pro	275	280	285
Ala Glu Ala Glu	Arg Ser Gln Arg Arg Arg Leu Leu Val Pro Ala	290	295	300
Asn Glu Gly Asp	Pro Thr Glu Thr Leu Arg Gln Cys Phe Asp Asp	305	310	315
Phe Ala Asp Leu	Val Pro Phe Asp Ser Trp Glu Pro Leu Met Arg	320	325	330
Lys Leu Gly Leu	Met Asp Asn Glu Ile Lys Val Ala Lys Ala Glu	335	340	345
Ala Ala Gly His	Arg Asp Thr Leu Tyr Thr Met Leu Ile Lys Trp	350	355	360

Val	Asn	Lys	Thr	Gly	Arg	Asp	Ala	Ser	Val	His	Thr	Leu	Leu	Asp
				365					370					375

Ala	Leu	Glu	Thr	Leu	Gly	Glu	Arg	Leu	Ala	Lys	Gln	Lys	Ile	Glu
				380					385					390

Asp	His	Leu	Leu	Ser	Ser	Gly	Lys	Phe	Met	Tyr	Leu	Glu	Gly	Asn
				395					400					405

Ala	Asp	Ser	Ala	Xaa	Ser
				410	

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<210> 13  
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<400> 13  
 aggatgggaa gtgtgtgata tacccttgat 30

<210> 14  
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 <212> PRT  
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Gly	Arg	Gly	Ala	Leu	Pro	Thr	Ser	Met	Gly	Gln	His	Gly	Pro	Ser
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Ala	Arg	Ala	Arg	Ala	Gly	Arg	Ala	Pro	Gly	Pro	Pro	Pro	Ala	Arg
				20					25					30

Glu	Ala	Ser	Pro	Arg	Leu	Arg	Val	His	Lys	Thr	Phe	Lys	Phe	Val
				35					40					45

Val	Val	Gly	Val	Leu	Leu	Gln	Val	Val	Pro	Ser	Ser	Ala	Ala	Thr
				50					55					60

Ile	Lys	Leu	His	Asp	Gln	Ser	Ile	Gly	Thr	Gln	Gln	Trp	Glu	His
				65					70					75

Ser	Pro	Leu	Gly	Glu	Leu	Cys	Pro	Pro	Gly	Ser	His	Arg	Ser	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

	80		85		90
Arg Pro Gly Ala Cys Asn Arg Cys Thr Glu Gly Val Gly Tyr Thr	95		100		105
Asn Ala Ser Asn Asn Leu Phe Ala Cys Leu Pro Cys Thr Ala Cys	110		115		120
Lys Ser Asp Glu Glu Glu Arg Ser Pro Cys Thr Thr Thr Arg Asn	125		130		135
Thr Ala Cys Gln Cys Lys Pro Gly Thr Phe Arg Asn Asp Asn Ser	140		145		150
Ala Glu Met Cys Arg Lys Cys Ser Thr Gly Cys Pro Arg Gly Met	155		160		165
Val Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val	170		175		180
His Lys Glu Ser Gly Asn Gly His Asn Ile Trp Val Ile Leu Val	185		190		195
Val Thr Leu Val Val Pro Leu Leu Leu Val Ala Val Leu Ile Val	200		205		210
Cys Cys Cys Ile Gly Ser Gly Cys Gly Gly Asp Pro Lys Cys Met	215		220		225
Asp Arg Val Cys Phe Trp Arg Leu Gly Leu Leu Arg Gly Pro Gly	230		235		240
Ala Glu Asp Asn Ala His Asn Glu Ile Leu Ser Asn Ala Asp Ser	245		250		255
Leu Ser Thr Phe Val Ser Glu Gln Gln Met Glu Ser Gln Glu Pro	260		265		270
Ala Asp Leu Thr Gly Val Thr Val Gln Ser Pro Gly Glu Ala Gln	275		280		285
Cys Leu Leu Gly Pro Ala Glu Ala Glu Gly Ser Gln Arg Arg Arg	290		295		300
Leu Leu Val Pro Ala Asn Gly Ala Asp Pro Thr Glu Thr Leu Met	305		310		315
Leu Phe Phe Asp Lys Phe Ala Asn Ile Val Pro Phe Asp Ser Trp	320		325		330
Asp Gln Leu Met Arg Gln Leu Asp Leu Thr Lys Asn Glu Ile Asp					

335	340	345
Val Val Arg Ala Gly Thr Ala Gly Pro Gly Asp Ala Leu Tyr Ala		
350	355	360
Met Leu Met Lys Trp Val Asn Lys Thr Gly Arg Asn Ala Ser Ile		
365	370	375
His Thr Leu Leu Asp Ala Leu Glu Arg Met Glu Glu Arg His Ala		
380	385	390
Lys Glu Lys Ile Gln Asp Leu Leu Val Asp Ser Gly Lys Phe Ile		
395	400	405
Tyr Leu Glu Asp Gly Thr Gly Ser Ala Val Ser Leu Glu		
410	415	

<210> 15  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 15
Val Met Asp Ala Val Pro Ala Arg Arg Trp Lys Glu Phe Val Arg
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Thr Leu Gly Leu Arg Glu Ala Glu Ile Glu Ala Val Glu Val Glu
20 25 30
Ile Gly Arg Phe Arg Asp Gln Gln Tyr Glu Met Leu Lys Arg Trp
35 40 45
Arg Gln Gln Gln Pro Ala Gly Leu Gly Ala Val Tyr Ala Ala Leu
50 55 60
Glu Arg Met Gly Leu Asp Gly Cys Val Glu Asp Leu Arg Ser
65 70

<210> 16  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 16
Val Val Glu Asn Val Pro Pro Leu Arg Trp Lys Glu Phe Val Arg
1 5 10 15
Arg Leu Gly Leu Ser Asp His Glu Ile Asp Arg Leu Glu Leu Gln
20 25 30
Asn Gly Arg Cys Leu Arg Glu Ala Gln Tyr Ser Met Leu Ala Thr

	35		40		45
Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala Thr Leu Glu Leu Leu					
	50		55		60
Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly Cys Leu Glu Asp					
	65		70		75
Ile Glu Glu					

<210> 17  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 17	
Ile Ala Gly Val His Thr Leu Ser Gln Val Lys Gly Phe Val Arg	
1	15
Lys Asn Gly Val Asn Glu Ala Lys Ile Asp Glu Ile Lys Asn Asp	
20	30
Asn Val Gln Asp Thr Ala Glu Gln Lys Val Gln Leu Leu Arg Asn	
35	45
Trp His Gln Leu His Gly Lys Lys Glu Ala Tyr Asp Thr Leu Ile	
50	60
Lys Asp Leu Lys Lys Ala Asn Leu Cys Thr Leu Ala Glu Lys Ile	
65	75
Gln Thr	